VPDES PERMIT FACT SHEET

This document gives pertinent information concerning the **reissuance** of the VPDES permit listed below. This permit is being processed as a **Minor, Municipal** permit. The effluent limitations contained in this permit will maintain the Water Quality Standards of 9 VAC 25-260-00 et.seq. The treatment facilities consist of: grease trap, two septic tanks, recirculating sand filter, and tablet chlorinator, with discharge to holding pond (used to irrigate golf course) and then to Sinking Creek. This permit action consists of limiting pH, BOD_5, suspended solids, and total residual chlorine; and including other requirements and special conditions.

SIC Code: 4952

1. Facility Name and Address:
The Old Farm Golf Club WWTP
16639 Old Jonesboro Road
Bristol, VA 24202

Facility Location:
16639 Old Jonesboro Road

2. Permit No. VA0090182
Expiration Date: May 17, 2009

3. Owner Name and Address:
United Golf, Inc.
60 Hilton Head National Drive
Blufton, SC 29910
Telephone No.: (843) 686-6000

Facility Contact:
Name: Marc Eubanks
Title: Club Manager
Telephone No: (276) 669-1042

4. Application Complete Date: October 31, 2008
Permit Drafted By: Fred M. Wyatt, SWRO Date: January 28, 2009
Reviewed By: Steve E. Arthur Date: 2/5/2009
Reviewed By: _____ Date:
Public Comment Period Dates: from 02/07/2009 to 03/07/2009

5. Receiving Stream Name: Sinking Creek; River Mile: 6CSNK008.32 Basin: Tennessee-Big Sandy River; Subbasin: Holston River; Section: 3; Class: IV; Special Standards: None

7-Day, 10-Year Low Flow (7Q10): 1.36 MGD (June - Dec.)
1-Day, 10-Year Low Flow (1Q10): 1.29 (June - Dec.)
7Q10 High Flow: 2.26 MGD (Jan. - May)
1Q10 High Flow: 1.87 MGD (Jan. - May)
30-Day, 10-Year Low Flow (30Q10): 5.88 MGD
Harmonic Mean Flow (HM): 4.2 MGD

Tidal? No

303(D) list? No

6. Operator License Requirements: None

7. Reliability Class: I

8. Permit Characterization:
(X) Private ( ) Federal ( ) State ( ) POTW ( ) PVOTW
( ) Possible Interstate Effect ( ) Interim Limits in Other Document

9. Attach a schematic of wastewater treatment system, and provide a general description of the activities of the facility.

Discharge Description

OUTFALL NUMBER	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
001	Olde Farm Golf Club WWTP	See Page 1 above, first paragraph	0.005 MGD

(1) List operations contributing to flow (2) List treatment units
(3) Design flow

10. Sewage Sludge Use or Disposal: Sludge is periodically pumped from the septic tanks and shipped to the Wolf Creek Water Reclamation Facility (formerly the Town of Abingdon WWTP).

11. Discharge Location Description: See attached Quadrangle; Number: 025B, Wyndale, VA

12. Material Storage: None reported

13. Ambient Water Quality Information: None

14. Antidegradation Review & Comments: Tier I (X) Tier II Tier III

The State Water Control Board's Water Quality Standards includes an antidegradation policy (9 VAC 25-260-30). All state surface waters are provided one of three levels of antidegradation protection. For Tier 1 or existing use protection, existing uses of the water body and the water quality to protect these uses must be maintained. Tier 2 water bodies have water quality that is better than the water quality standards. Significant lowering of the water quality of Tier 2 waters is not allowed without an evaluation of the economic and social impacts. Tier 3 water bodies are exceptional waters and are so designated by regulatory amendment. The antidegradation policy prohibits new or expanded discharges into exceptional waters. The antidegradation review begins with a Tier determination. The receiving stream is Tier I, since the original effluent limitations for the 0.005 MGD facility were based on stream standards.

15. Site Inspection: Technical Inspection on September 7, 2005 by Danny L. Petty.

16. Effluent Screening & Limitations Development: The wastewater treatment plant is designed to discharge into a pond used as the source of irrigation water for the golf course. The pond may at times discharge into Sinking Creek. Due to the complexity of the hydraulics, this discharge can not be easily modeled. The dilution ratio (7Q10 Sinking

17. Creek/WWTP discharge) is 272/1 and the pond has a volume of 2.777 million gallons. Considering the large dilution ratio and the additional dilution and treatment provided by the pond, it is the best professional judgment of DEQ staff that standard secondary treatment limits for BOD_5 and TSS (30/30 mg/l) and total residual chlorine limits of 1.0 mg/l (monthly average) and 3.0 mg/l (weekly average) are adequate to protect water quality. It is also the best professional judgement of DEQ staff that nutrient limits are not needed for the effluent.

The staff has considered the nutrient value of the irrigation water in the pond after the addition of the sewage effluent. Since the wastewater has a large dilution in the pond, and since the water needed for irrigation will be very large in relation to the design flow if the STP, the staff feels that no special requirements are needed in the permit to control the land application of the wastewater.

On January 15, 2003, new bacteria standards in 9 VAC 25-260-170.A became effective, as did the revised disinfection policy of 9 VAC 25-260-170.B. These standards replaced the existing fecal coliform standard and disinfection policy of 9 VAC 25-160-170. E.coli (fresh water) and enterococci (saltwater and transition zone) criteria replaced the existing fecal coliform criteria. Since this facility disinfects with chlorine, the previous permit included fecal coliform limits which were applicable only if alternate disinfection was used. In accordance with the agency guidance for the new standards, permittees which use chlorine may perform a study to demonstrate that chlorine limits can be used as a surrogate for bacteria limits in a permit for an individual discharge. However, several surrogate studies have been completed state-wide of facilities with a wide range of design flows and treatment schemes and all the facilities have passed the criteria for using chlorine as a surrogate for E.coli testing. Therefore, surrogate testing is not being required in this permit.

Basis for Effluent Limitations:

PARAMETER	BASIS FOR LIMITS	DISCHARGE LIMITS				MONITORING REQUIREMENTS	
		MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow	NA	NL	NA	NA	NL	1/Day	Estimate**
PH	2	NA	NA	6.0 SU	9.0 SU	1/Day	Grab
BOD_5	3,4	30 mg/l 0.6 kg/d	45 mg/l 0.9 kg/d	NA	NA	1/Month	Grab
Total Suspended Solids	1	30 mg/l 0.6 kg/d	45 mg/l 0.9 kg/d	NA	NA	1/Month	Grab
Total Residual Chlorine ***	3,4	1.0 mg/l	3.0 mg/l	NA	NA	1/Day	Grab

*1. Federal Effluent guidelines
2. Water Quality-based Limits:
3. Best Engineering Judgement
4. Best Professional Judgement
5. Other (e.g. wasteload allocation model)

** Estimated average daily flowrate shall be based on the most accurate method or device available such as: weir, potable water meter, pump rates, etc....

***Additional TRC Limitations and Monitoring Requirements (PART I.B. of Permit)

1. No more than three (3) of all samples for TRC taken at the outlet of the chlorine contact tank shall be less than 1.0 mg/l for any one calendar month.

2. No TRC sample collected after the chlorine contact shall be less than 0.6 mg/l.

3. If an alternative to chlorination as a disinfection method is chosen, the E.coli parameter shall be limited and monitored by the permittee as specified below:

	Discharge Limitations		Monitoring Requirements	
	Monthly Avg.	Weekly Avg.	Frequency	Sample Type
E.coli (N/100ml)	126*	NA	1/Week**	Grab

* Geometric Mean
** Between 10:00 a.m. and 4:00 p.m.

17. Basis for Sludge Use & Disposal Requirements : The VPDES Permit Regulation (9 VAC 25-31-10 et seq.), adopted by the State Water Control Board May 22, 1996, became effective on July 24, 1996. Among other program changes, the newly adopted regulation incorporated technical standards for the use or disposal of sewage sludge.

18. Antibacksliding Statement: Since no effluent limitations are being relaxed in this reissuance, the antibacksliding provisions of the Permit Regulation (9 VAC 25-31-220.1) do not apply.

19. Compliance Schedule: NA

20. Special Conditions:

PART I.B. Special Condition - Additional TRC Limitations and Monitoring Requirements
Rationale: Required by Sewage Control and Treatment Regulations, 9 VAC 25-790, and Virginia Water Quality Standards, 9 VAC 25-260-170, bacteria; other waters. Also, 40 CFR 122.41(e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment in order to comply with the permit. This ensures proper operation of chlorination equipment to maintain adequate disinfection.

PART I.C. Special Condition - Compliance Reporting Under Part I.A.
Rationale: Authorized by VPDES Permit Regulation, 9 VAC 25-31-190 J 4 and 220 I. This condition is necessary when toxic pollutants are monitored by the permittee and a maximum level of quantification and/or a specific analytical method is required in order to assess compliance with a permit limit or to compare effluent quality with a numeric criterion. The condition also establishes protocols for calculation of reported values.

PART I.D. Other Requirements and Special Conditions

1. **Treatment Plant Flows**
Rationale: Required by VPDES Permit Regulation, 9 VAC 25-31-200 B.2. for all POTW and PVOTW permits.

2. **Indirect Dischargers**
Rationale: Required by VPDES Permit Regulation, 9 VAC 25-31-200 B.1. for POTWs and PVOTWs that receive waste from someone other than the owner of the treatment works.

3. **CTC, CTO Requirement**
Rationale: Required by the Code of Virginia § 62.1-44.19: Sewage Collection and Treatment Regulations, 9 VAC 25-790.

4. **O&M Manual Requirement**
Rationale: Required by VPDES Permit Regulation, 9 VAC 25-31-190 E.

5. **Licensed Operator Requirement**
Rationale: The VPDES Permit Regulation, 9 VAC 25-31-200 D. and The Code of Virginia § 54.1-2300 et seq, Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.), requires licensure of operators.

6. **Reliability Class**
Rationale: Required by Sewerage Regulations, 9 VAC 25-60-20 and 40 for all municipal facilities.

7. **Treatment Works Closure Plan**
Rationale: State Water Control Law § 62.1-44.19. This condition is used to notify the owner of the need for a closure plan where a treatment works is being replaced or is expected to close.

8. **Total Maximum Daily Load (TMDL) Reopener**
Rationale: Section 303(d) of the Clean Water Act requires the total maximum daily loads (TMDLs) be developed for streams listed as impaired. This special condition is to allow the permit to be reopened if necessary to bring it in compliance with any applicable TMDL approved for the receiving stream. The reopener recognizes that, according to Section 402(o)(1)of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in the permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan, or other wasteload allocation prepared under Section 303 of the Act.

10. **Sludge Reopener**
Rationale: Required by VPDES Permit Regulation, 9 VAC 25-31-220C.4. for all permits issued to treatment works treating domestic sewage.

13. **Sludge Use and Disposal**
Rationale (9-11): VPDES Permit Regulation, 9 VAC 25-31-100 P; 220 B 2; and 420 through 720, and 40 CFR Part 503 require all treatment works treating domestic sewage to submit information on sludge use and disposal practices and to meet specified standards for sludge use and disposal.

Technical requirements may be derived from the Department of Health's Biosolids Use Regulations, 12 VAC 5-585-10 et seq.

PART II, Conditions Applicable to All Permits
Rationale: VPDES Permit Regulation, 9 VAC 25-31-190 requires all VPDES permits to contain or specifically cite the conditions listed.

21. Changes from the previous permit contained in the reissuance permit:

The language in the Other Requirements and Special Conditions has been updated.

Reduced Monitoring: Due to the stringent reliability class and close human contact (pond water used for irrigation of golf course) and due to the fact that the monitoring frequencies are already minimal, reduced monitoring, under EPA's Interim Guidance for Performance Based Reductions of NPDES Permit Monitoring Frequencies, has not been considered.

22. Variances/Alternate Limits or Conditions: None

23. Regulation of Users: 9 VAC 25-31-280 B 9 - NA

24. Public Notice Information required by 9 VAC 25-31-280 B:

HOW TO COMMENT AND/OR REQUEST A PUBLIC HEARING: DEQ accepts comments and requests for public hearing by e-mail, fax or postal mail. All comments and requests must be in writing and be received by DEQ during the comment period. Submittals must include the names, mailing addresses and telephone numbers of the commenter/requester and of all the persons represented by the commenter/requester. A request for a public hearing must also include; 1) The reason why a public hearing is requested. 2) A brief, informal statement regarding the nature and extent of the requester or of those represented by the requester, including how and to what extent such interest would be directly and adversely affected by the permit. 3) Specific references, where possible, to terms and conditions of the permit and suggested revisions. DEQ may hold a public hearing, including another comment period, if public response is significant and there are substantial, disputed issues relevant to the permit.

CONTACT FOR PUBLIC COMMENTS, DOCUMENT REQUESTS AND ADDITIONAL INFORMATION:
Name: Fred M. Wyatt
Address: DEQ, Southwest Regional Office, P.O. Box 1688, 355 Deadmore Street, Abingdon, Virginia, 24212- 1688 Phone: (276) 676-4810 E-mail: fmwyatt@deq.virginia.gov Fax: (276) 676-4899

Following the comment period, the Board will make a determination regarding the proposed ***reissuance***. This determination will become effective, unless the DEQ grants a public hearing. Due notice of any public hearing will be given.

25. Additional Comments:

Previous Board Action: None

Staff Comments:

According to the attached printout from the Virginia Fish and Wildlife Information Service, no threatened or endangered species have been identified within a two mile radius of the discharge.

Public Comments:

26. TMDL: NA

PL .NING CONCURRENCE FOR MUNICIPAL VPDES PERMIT

PERMIT NO. VA0090182

FACILITY: The Olde Farm Golf Club WWTP

COUNTY: Washington

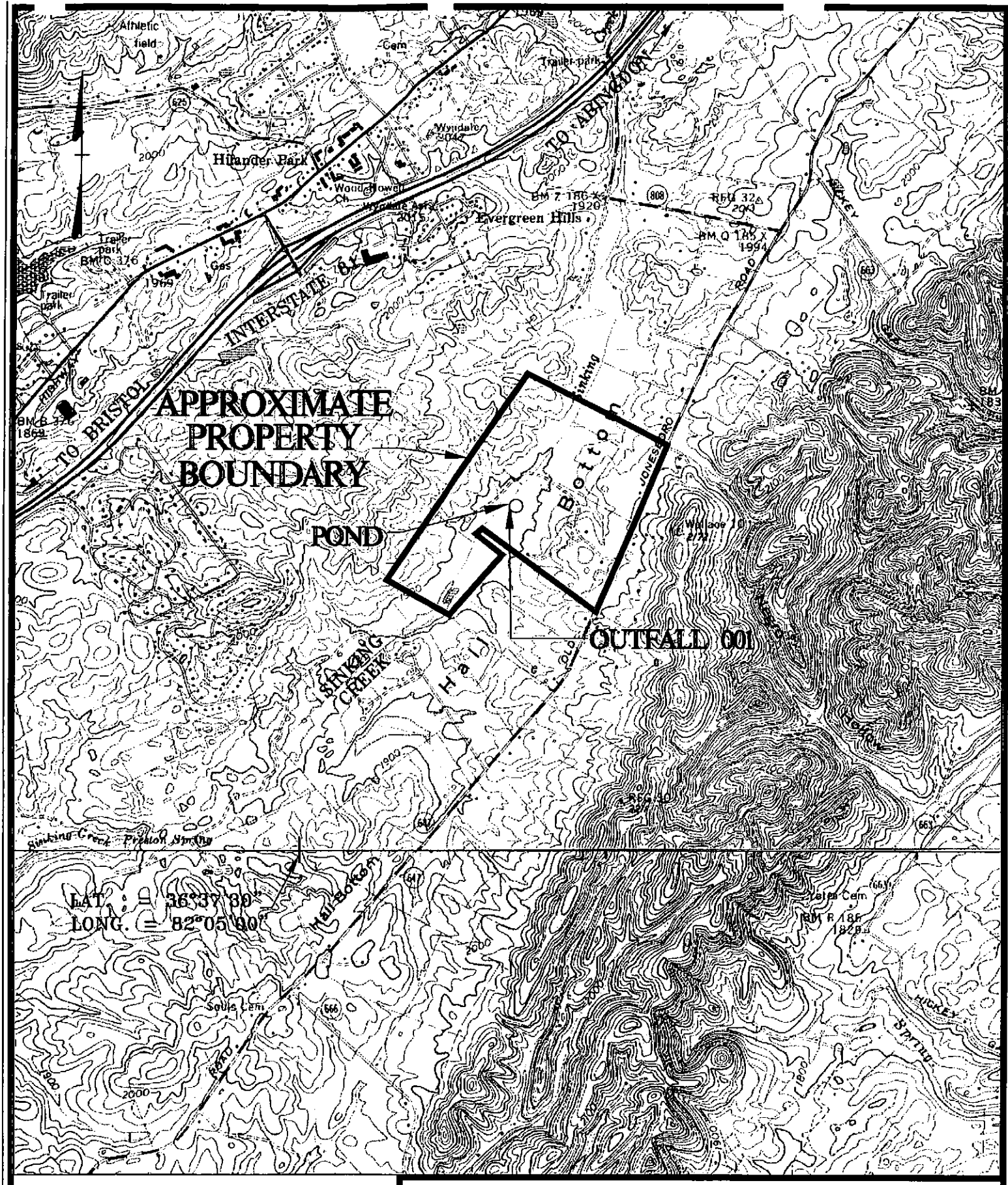
[ ] 1. The discharge is in conformance with the existing planning documents for the area.

[✓] 2. The discharge is not addressed in any planning document but will be included, if required, when the plan is updated.

[ ] 3. Other.

Environmental Manager

2/2/2009
Date

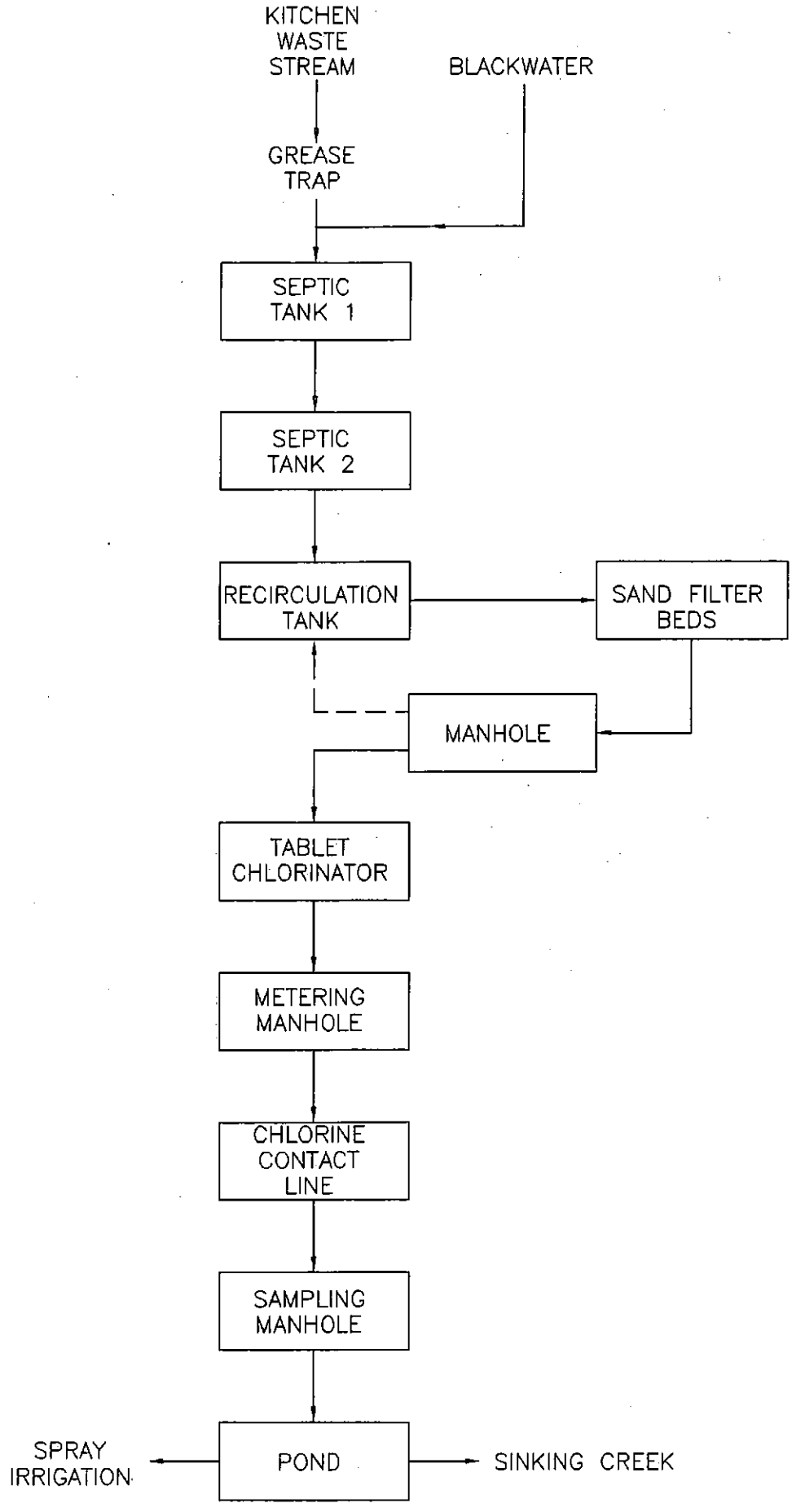


SOURCE: U.S.G.S. WYNDALE, VIRGINIA & HOLSTON VALLEY, VIRGINIA – TENNESSEE QUADRANGLE

DESIGNED BY	SCALE 1" = 2000'	THE OLDE FARM GOLF CLUB
DRAWN BY D.J.L.	DATE SEPT., 2003	LOCATION MAP
PROJECT NO. 7520-03		

Thompson + Litton Engineers Architects Planners

SHEET 1 OF 1



DESIGNED BY	SCALE N.T.S.
DRAWN BY D.J.L.	DATE
PROJECT NO. 7520-03	SEPT., 2003

WASTEWATER TREATMENT SYSTEM
FOR
THE OLDE FARM GOLF CLUB
FLOW SCHEMATIC

Thompson + Litton
Engineers
Architects
Planners

MEMORANDUM
DEPARTMENT OF ENVIRONMENTAL QUALITY
Office of Water Quality Assessments
629 East Main Street P.O. Box 10009 Richmond, Virginia 23219

SUBJECT: Flow Frequency Determination
The Farm Golf Course – #VA0090182

RECEIVED
FEB 26 1999
DEQ-SWRO

TO: Fred Wyatt, SWRO

FROM: Paul E. Herman, P.E., WQAP

DATE: February 25, 1999

COPIES: Ron Gregory, Charles Martin, Eugene Pc ll, File

The Farm Golf Course discharges to the Sinking Creek near Bristol, Virginia. Flow frequencies are required at this site for use by the permit writer in developing the VPDES permit.

The VDEQ conducted several flow measurements on the Sinking Creek from 1993 to 1998. The measurements were made approximately 2.0 miles upstream of the discharge point. The measurements were correlated with the same day daily mean values from the continuous record gage on the Beaver Creek at Bristol, VA #03478400. The measurements and daily mean values were plotted on a logarithmic graph and a best fit line was drawn through the data points. The required flow frequencies from the reference gage were plotted on the regression line and the associated flow frequencies at the measurement site were determined from the graph. The flow frequencies for the measurement site were projected to the discharge point using proportional drainage areas. The data for the reference gage, the measurement site, and the discharge point are presented below.

Beaver Creek at Bristol, VA (#03478400):

Drainage Area = 27.7 mi^2

1Q10 = 8.1 cfs	High Flow 1Q10 = 11 cfs
7Q10 = 8.7 cfs	High Flow 7Q10 = 13 cfs
30Q5 = 10 cfs	HM = 22 cfs

Sinking Creek near Highlander Park, VA (#03476508.5):

Drainage Area = 0.59 mi^2

1Q10 = 0.34 cfs	High Flow 1Q10 = 0.50 cfs
7Q10 = 0.36 cfs	High Flow 7Q10 = 0.60 cfs
30Q5 = 0.43 cfs	HM = 1.1 cfs

Sinking Creek at the Farm Golf Course discharge point:

Drainage Area = 3.46 mi^2

1Q10 = 2.0 cfs	High Flow 1Q10 = 2.9 cfs
7Q10 = 2.1 cfs	High Flow 7Q10 = 3.5 cfs
30Q5 = 2.5 cfs	HM = 6.5 cfs

The high flow months are January through May. This analysis does not address the discharge from the Greenbriar Estates located upstream of the Farm Golf Course discharge. This analysis assumes there are no other discharges, withdrawals, or springs influencing the flow in the Sinking Creek between the discharge point and the measurement site.

If you have any questions concerning this analysis, please let me know.

Wyatt,Frederick

From: nhreview nhreview [nhreview.po-richmond.dom-richmond@dcr.virginia.gov]
Sent: Thursday, February 26, 2009 8:36 AM
To: Wyatt,Frederick
Cc: karstreview.po-richmond.dom-richmond@dcr.virginia.gov
Subject: VPDES VA 0090182, The Old Farm Golf Club

Attachments: 55054,DEQ VPDES VA0090182, The Old Farm Golf Club.pdf; old farm golf club wastewater facility.jpg

55054,DEQ VPDES VA0090182, The...


old farm golf club wastewater ...

Mr. Wyatt,

Please find attached the DCR-DNH comments for the above referenced project. The comments are in pdf format and can be printed for your records. Also species rank information is available at http://www.dcr.virginia.gov/natural_heritage/help.shtml for your reference.

Please send a confirmation e-mail upon receipt of our comments. Let us know if you have any questions.

Thank you for your request.

L. Preston Bryant, Jr.
Secretary of Natural Resources

Joseph H. Maroon
Director

COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

217 Governor Street
Richmond, Virginia 23219-2010
(804) 786-7951 FAX (804) 371-2674

February 26, 2009

Fred Wyatt
DEQ-Southwest Regional Office
P.O. Box 1688
Abingdon, VA 24212

Re: DEQ VPDES VA0090182, The Old Farm Golf Club

Dear Mr. Wyatt:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

This project has been sent to the Virginia Karst Program and to the Virginia Speleological Survey for review for documented sensitive karst features and caves. According to information currently in our files, this existing wastewater treatment plant discharges its treated effluent into a pond, which is in turn used as a source for irrigation water for a golf course. Soils are comparatively thin in Halls Bottom in the vicinity of the project as a result of the highly developed karst topography. There is a possibility that contaminants are being introduced into the local karst aquifer by the practice of irrigating with this treated wastewater. More problematic is the occasional overflow of the treated effluent from the holding pond directly into Sinking Creek. The entire flow of Sinking Creek sinks underground as it enters Halls Bottom #1 Cave (also known as Latham's Cave) and flows along an underground path before emerging at Preston Spring 1750 feet southwest from the point where the stream sinks (see attached map documenting results from a dye trace performed ca. 1975).

While the DCR Karst Program does not oppose the reissuance of the wastewater discharge permit for this existing facility, it recognizes that a superior alternative would be to design and redevelop the Old Farm Golf Club wastewater collection system to accommodate an eventual connection to the Washington County Service Authority's (WCSA) centralized wastewater treatment infrastructure. Note that a project by the WCSA to construct wastewater interceptors and pump stations is currently being planned less that one mile northwest from the subject site. Utilizing the WCSA central public sewer system rather than continuing to operate this small centralized community system would serve to better protect the area's karst groundwater resources and would also reduce the nutrient levels in Sinking Creek.

In karst areas such as those found in much of Washington County, in terms of protecting karst groundwater quality, a well designed central public sewer system that discharges the treated effluent into

a major regional surface stream is generally a superior alternative for treating wastewater from housing developments than is onsite treatment by residential septic systems or by small centralized community systems (such as the one utilized at The Old Farm Golf Club) that discharge treated effluent indirectly or sometimes directly into karst aquifers and/or small streams.

If new karst features are encountered during the reissuance of this permit, please coordinate with Wil Orndorff (540-394-2552, Wil.Orndorff@dcr.virginia.gov) to document and minimize adverse impacts.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

Our files do not indicate the presence of any State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please contact DCR for an update on this natural heritage information if a significant amount of time passes before it is utilized.

The Virginia Department of Game and Inland Fisheries maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters, that may contain information not documented in this letter. Their database may be accessed from http://vafwis.org/fwis/ or contact Shirl Dressler at (804) 367-6913.

Should you have any questions or concerns, feel free to contact me at 804-371-2708. Thank you for the opportunity to comment on this project.

Sincerely,

S. Rene' Hypes
Project Review Coordinator

CC: Wil Orndorff, DCR-Karst

Hal s Bottom Karst Area, Wash ngton County Virgin a (showing site of The Old Farm Golf Club Wastwater Treatment Facility and dye trace results)

The old farm wastewater treatment facility.shp
Project area.shp
Va_dye_trace_vectors.shp
Va_dye_injections.shp

N
W
E
S

0.9 0 0.9 1.8 Miles

Wyatt,Frederick

From: gis@timmons.com
Sent: Thursday, January 29, 2009 10:01 AM
To: nhwebreview@dcr.virginia.gov; Wyatt,Frederick
Subject: DEQ VPDES VA0090182 THE OLD FARM GOLF CLUB - FMWYATT@DEQ.VIRGINIA.GOV
Attachments: DCR_NH_REPORT.pdf

Thank you for submitting your project to DCR Natural Heritage. Attached is an overview of the results and potential conflicts.

L. Preston Bryant, Jr
Secretary of Natural Resources

Joseph H. Maroon
Director

COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

The project mapped as part of this report has been searched against the Department of Conservation and Recreation's Biotics Data System for occurrences of natural heritage resources from the area indicated for this project. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics files, NATURAL HERITAGE RESOURCES HAVE BEEN DOCUMENTED within two miles of the indicated project boundaries.

You have submitted this project to DCR for a more detailed review for potential impacts to natural heritage resources. DCR will review the submitted project to identify the specific natural heritage resources in the vicinity of the proposed project. Using the expertise of our biologists, DCR will evaluate whether your specific project is likely to impact these resources, and if so how. DCR's response will indicate whether any negative impacts are likely and, if so, make recommendations to avoid, minimize and/or mitigate these impacts. If the potential negative impacts are to species that are state- or federally-listed as threatened or endangered, DCR will also recommend coordination with the appropriate regulatory agencies: the Virginia Department of Game and Inland Fisheries for state-listed animals, the Virginia Department of Agriculture and Consumer Services for state-listed plants and insects, and the United States Fish and Wildlife Service for federally listed plants and animals. If your project is expected to have positive impacts we will report those to you with recommendations for enhancing these benefits.

Please allow up to 30 days for a response.

We will review the project based on the information you included in the Project Info submittal form, which is included in the report that follows. Often additional information can help us make a more accurate and detailed assessment of a project's potential impacts to natural heritage resources. If you have additional information that you believe will help us better assess your project's potential impacts, you may send that information to us. Please refer to the project Title (from the first page of this report) and include this pdf file with any additional information you send us.

Thank you for submitting your project for review to the Virginia Natural Heritage Program through the NH Data Explorer. Should you have any questions or concerns about DCR, the Data Explorer, or this report, please contact the Natural Heritage Project Review Unit at 804-371-2708.
its.

DCR
Department of Conservation & Recreation
CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

WebID: W633688200694531250

Client Project Number:

PROJECT INFORMATION

TITLE: DEQ VPDES VA0090182 THE OLD FARM GOLF CLUB
DESCRIPTION: REISSUANCE OF .005 MGD WWTP
EXISTING SITE CONDITIONS: DISHARGE INTO SINKING CREEK AT RIVER MILE 6CNK 008.32 HAVING MIXING ZONE OF 200 FT
QUADRANGLES: WYNDALE
COUNTIES: Washington
Latitude/Longitude (DMS): 363825/820420
Acreage: 5
Comments:

REQUESTOR INFORMATION

Priority: No **Tier Level:** 3 **Tax ID:**

Contact Name: DCR TIER 3 USER

Company Name: DCR

Address: 217 Governor Street

City: Richmond **State:** VA **Zip:** 23219

Phone: (804)786-8646 **Fax:** (804)371-2674 **Email:** FMWYATT@DEQ.VIRGINIA.GOV

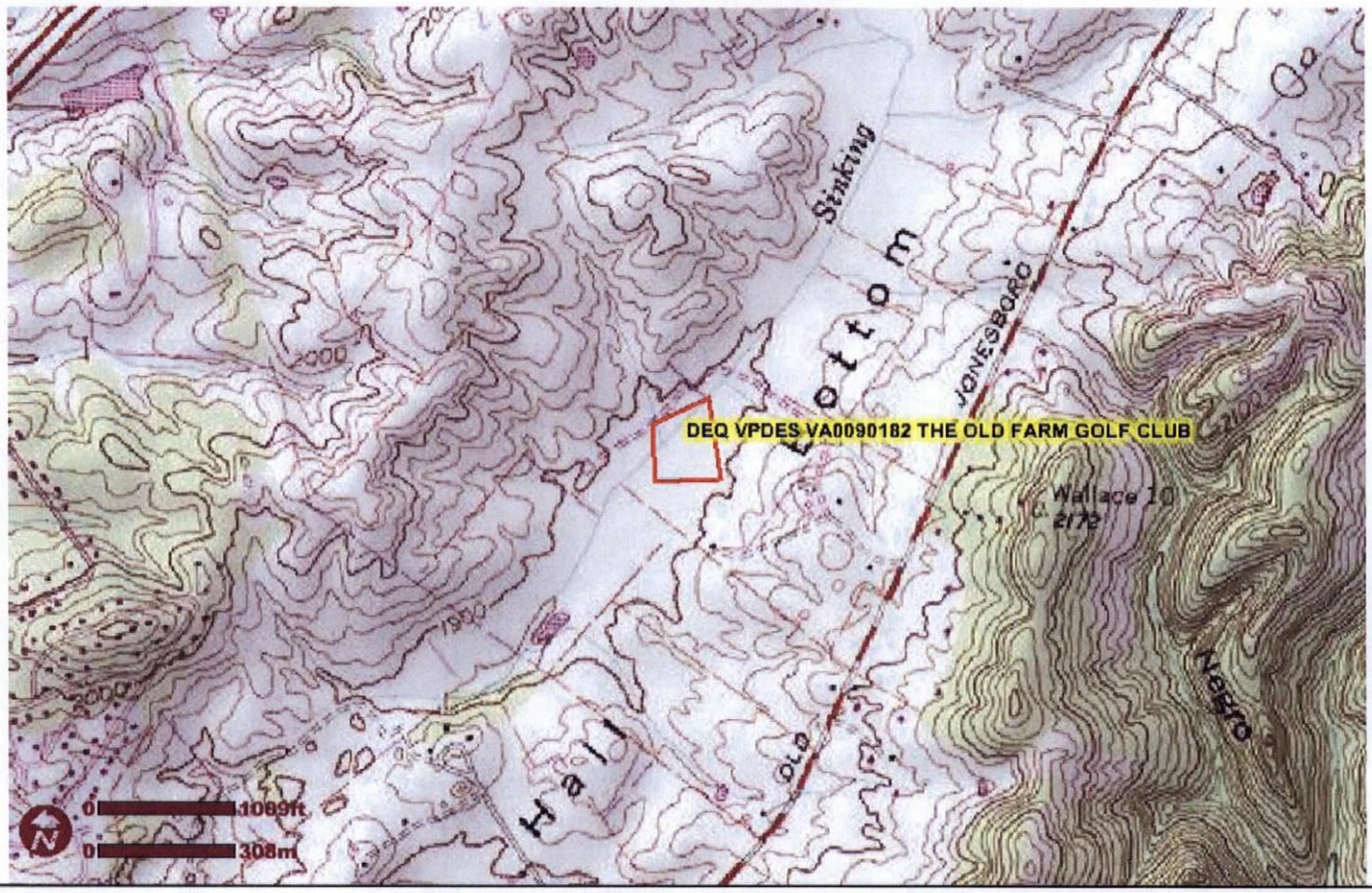
Conservation Site Name	Site Type	Brank	Acreage	Listed Species Presence
SPRING CREEK SCU	SCU	B3	6	NL

Natural Heritage Conservation Sites within Search Radius

Site-Name	Group-Name	common-name	scientific-name	GRANK	SRANK	Fed Status	st status	EO Rank	last obs date	precision
SPRING CREEK SCU	Invertebrate Animal	Cherokee Clubtail	Gomphus consanguis	G2G3	S2	SOC		BC	1994-06-14	S

Natural Heritage Resources within Search Radius

DIABASE	INFO	SERIES	PRIORITY
NO	Beekmantown Group	Cambrian and Lower Ordovician Carbonates	
Affected Diabase Elements			



Quads: WYNDALE

Counties: Washington

DEQ VPDES VA0090182 THE OLD FARM GOLF CLUB

Company: DCR

Lat/Long: 363825/820420

Virginia Department of Game and Inland Fisheries

12/12/2008 1:36:04 PM

Fish and Wildlife Information Service

VaFWIS Initial Project Assessment Report Compiled on 12/12/2008, 1:36:04 PM

Help

Known or likely to occur within a **2 mile radius of 36,38,25. -82,04,17.**
in **191 Washington County, VA**

489 Known or Likely Species ordered by Status Concern for Conservation (displaying first 57) (57 species with Status* or Tier I**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060052	FESE	I	Pigtoe, shiny	Fusconaia cor		BOVA
060122	FESE	I	Rabbitsfoot, rough	Quadrula cylindrica strigillata		BOVA
060036	FESE	I	Riffleshell, tan	Epioblasma florentina walkeri		BOVA
050021	FESE	II	Bat, gray	Myotis grisescens		BOVA
010330	FTST	I	Chub, spotfin	Erimonax monachus		BOVA
010430	SE	I	Dace, Tennessee	Phoxinus tennesseensis		BOVA
010344	SE	I	Darter, sharphead	Etheostoma acuticeps		BOVA
040267	SE	I	Wren, Bewick's	Thryomanes bewickii	Yes	CBC,BOVA
060007	SE	II	Mussel, slippershell	Alasmidonta viridis		BOVA
040096	ST	I	Falcon, peregrine	Falco peregrinus	Yes	CBC,BOVA
040293	ST	I	Shrike, loggerhead	Lanius ludovicianus	Yes	BBA,CBC,BOVA
010352	ST	II	Darter, greenfin	Etheostoma chlorobranchium		BOVA
010342	ST	II	Darter, longhead	Percina macrocephala		BOVA
040093	FSST	II	Eagle, bald	Haliaeetus leucocephalus	Yes	CBC,BOVA
060069	FSST	III	Riversnail, spiny	Io fluvialis		BOVA
060086	ST	III	Sandshell, black	Ligumia recta		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
060146	FC	II	Bean, rayed	Villosa fabalis		BOVA
060121	FC	II	Kidneyshell, fluted	Ptychobranchus subtentum		BOVA
100248	FS	I	Fritillary, regal	Speyeria idalia idalia		BOVA

010341	FSSS	II	Logperch, blotchside	Percina burtoni		BOVA
060050	FSSS	II	Pigtoe, Tennessee	Fusconaia barnesiana		BOVA
070010	FS	III	Amphipod, James Cave	Stygobromus abditus		BOVA
100001	FS	IV	fritillary, Diana	Speyeria diana		BOVA
040372	SS	I	Crossbill, red	Loxia curvirostra		BOVA
040306	SS	I	Warbler, golden-winged	Vermivora chrysoptera		BOVA
010075	SS	II	Shiner, popeye	Notropis ariommus		BOVA
020020	SS	II	Hellbender, eastern	Cryptobranchus alleganiensis alleganiensis		BOVA
020078	SS	II	Salamander, Weller's	Plethodon welleri		BOVA
040213	SS	II	Owl, northern saw-whet	Aegolius acadicus		BOVA
040304	SS	II	Warbler, Swainson's	Limnothlypis swainsonii		BOVA
040266	SS	II	Wren, winter	Troglodytes troglodytes	Yes	CBC,BOVA
010337	SS	III	Darter, bluebreast	Etheostoma camurum		BOVA
010351	SS	III	Minnow, fatlips	Phenacobius crassilabrum		BOVA
010336	SS	III	Redhorse, river	Moxostoma carinatum		BOVA
020040	SS	III	Salamander, pygmy	Desmognathus wrighti		BOVA
020046	SS	III	Salamander, shovel-nosed	Desmognathus marmoratus		BOVA
040094	SS	III	Harrier, northern	Circus cyaneus	Yes	CBC,BOVA
040204	SS	III	Owl, barn	Tyto alba pratincola	Yes	CBC,BOVA
060004	SS	III	Elktoe	Alasmidonta marginata		BOVA
010090	SS	IV	Shiner, mirror	Notropis spectrunculus		BOVA
010126	SS	IV	Stonecat	Noturus flavus		BOVA
030012	CC	IV	Rattlesnake, timber	Crotalus horridus		BOVA
040264	SS	IV	Creeper, brown	Certhia americana	Yes	CBC,BOVA
040032	SS		Egret, great	Ardea alba egretta		BOVA
040366	SS		Finch, purple	Carpodacus purpureus	Yes	CBC,BOVA
040241	SS		Flycatcher, alder	Empidonax alnorum		BOVA
040238	SS		Flycatcher, yellow-bellied	Empidonax flaviventris		BOVA

040285	SS		Kinglet, g[illegible]-crowned	Regulus satrapa	Yes	CBC,BOVA
040112	SS		Moorhen, common	Gallinula chloropus cachinnans		BOVA
040262	SS		Nuthatch, red-breasted	Sitta canadensis	Yes	CBC,BOVA
040210	SS		Owl, long-eared	Asio otus		BOVA
040278	SS		Thrush, hermit	Catharus guttatus	Yes	CBC,BOVA
040314	SS		Warbler, magnolia	Dendroica magnolia		BOVA
040225		I	Sapsucker, yellow-bellied	Sphyrapicus varius	Yes	CBC,BOVA
040319		I	Warbler, black-throated green	Dendroica virens		BOVA
060209		I	Hornsnail, bottle	Pleurocera gradata		BOVA

To view **All 489 species** View 489

* FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; FS=Federal Species of Concern; SC=State Candidate; CC=Collection Concern; SS=State Special Concern

** I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Anadromous Fish Use Streams

N/A

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters

N/A

Cold Water Stream Survey (Trout Streams)
Summary of Recent Observations

(3 records) (Click on Stream Name to view complete reach history)

View Map of All Cold Water Stream Surveys

Reach ID	Stream Name	Class	Brook Trout	Brown Trout	Rainbow Trout	View Map
03BVR-01	Beaver Creek	Stockable				Yes
03SNK-01	Sinking Creek	Stockable				Yes
03SPR-01	Spring Creek	Stockable				Yes

Public Holdings:

N/A

audit no. 214700 12/12/2008 1:36:04 PM Virginia Fish and Wildlife Information Service

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Define Point of Interest

36,38,24.9 -82,04,16.9
is the Search Point

Submit Cancel

Search Point

- (•) **Change** to "clicked" map point
- ( ) **Fixed** at 36,38,24.9 - 82,04,16.9

Show Position Rings

(•) Yes ( ) No

1 mile and 1/4 mile at the **Search Point**

Show Search Area

(•) Yes ( ) No

2 miles

Search Point is at map center

Base Map Choices

Topography

Map Overlay Choices

Current List: Position, Search

Map Overlay Legend

Position Rings 1 mile and 1 4 mile at the Search Point

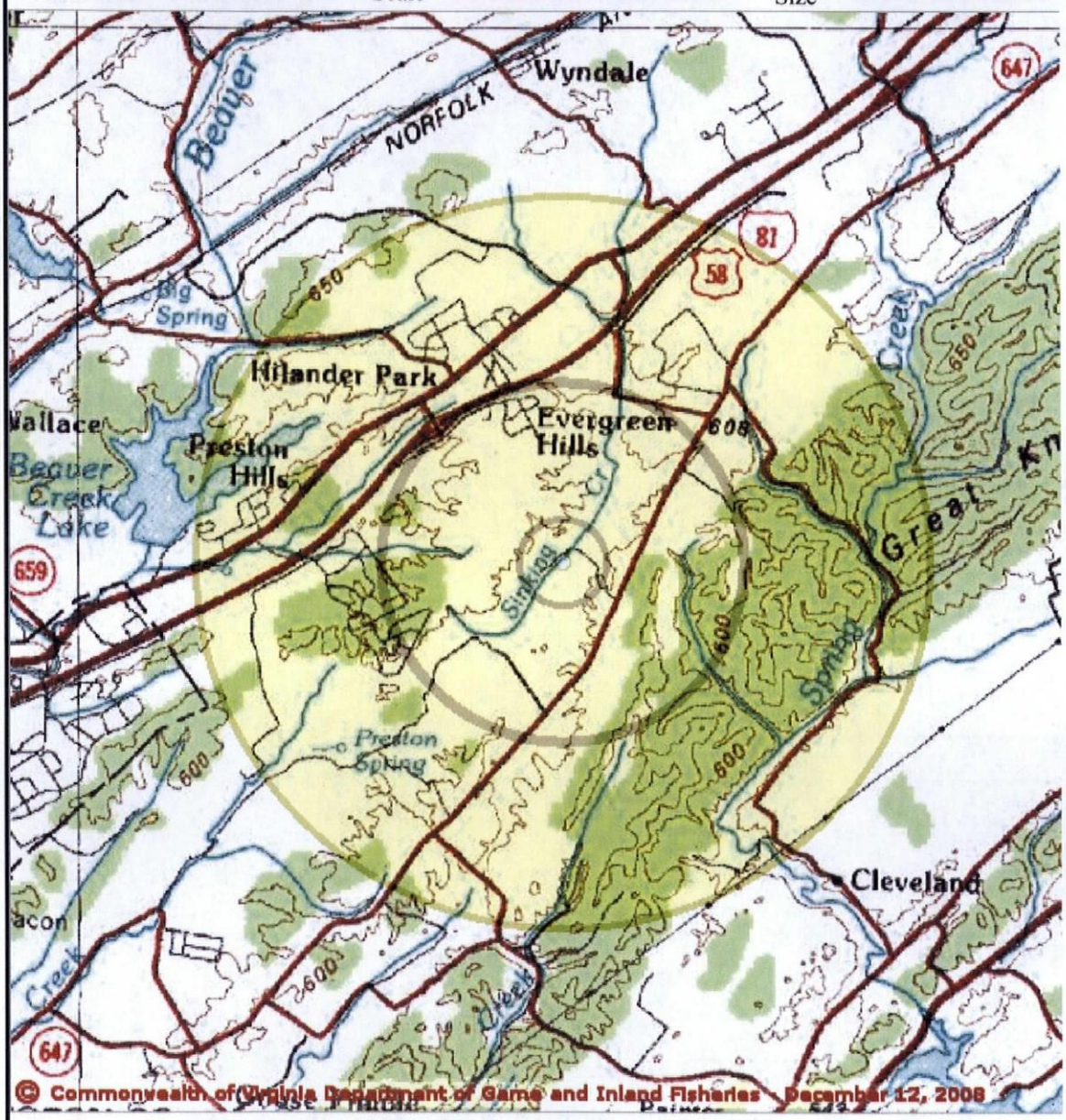
2 mile radius Search Area

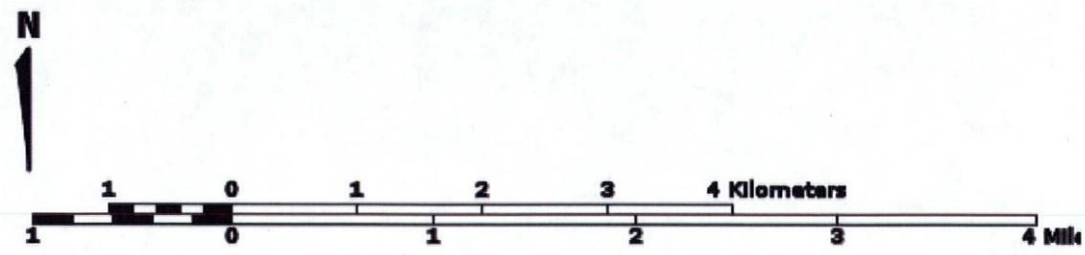
Refresh Browser Page

Map Click: Pan | Ic | M

Map Scale: In Zoom Out

Screen Size: Small Size





Point of Search 36,38,24.9 -82,04,16.9
Map Location 36,38,24.9 -82,04,16.9

Select **Coordinate System:** (•) Degrees,Minutes,Seconds Latitude - Longitude
( ) Decimal Degrees Latitude - Longitude
( ) Meters UTM NAD83 East North Zone
( ) Meters UTM NAD27 East North Zone

Base Map source: USGS 1:100,000 topographic maps (see terraserver-usa.com for details)

Map projection is UTM Zone 17 NAD 1983 with left 399441 and top 4060319. Pixel size is 16 meters . Coordinates displayed are Degrees, Minutes, Seconds North and West.Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 9600 meters east to west b 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet e to west by 31501 feet north to south for a total of 35.5 square miles.

Black and white aerial photography aquired near 1990 and topographic maps are from the United States Department of the Interior, United States Geological Survey.
Shaded topographic maps are from TOPO! ©2006 National Geographic
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Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network
All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheri

map assembled 2008-12-12 13:41:05 (qa/qc May 21, 2008 10 49 - tn=214700 dist=3218 I)

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CWSS Sinking Creek

36,38,25.0 -82,04,16.9
is **the Search Point**

Display **Item Location** is not in center at map center

Show Position Rings
○ Yes ◉ No
1 mile and 1/4 mile at the **Search Point**

Show Search Area
◉ Yes ○ No
2 miles

Search Point is at map center

Base Map Choices
Topography

Map Overlay Choices
Current List: Search, Observation

Map Overlay Legend

Trout Waters

Class I - IV

Selected Class I - IV

Class V - VI

Selected Class V - VI

2 mile radius Search Area

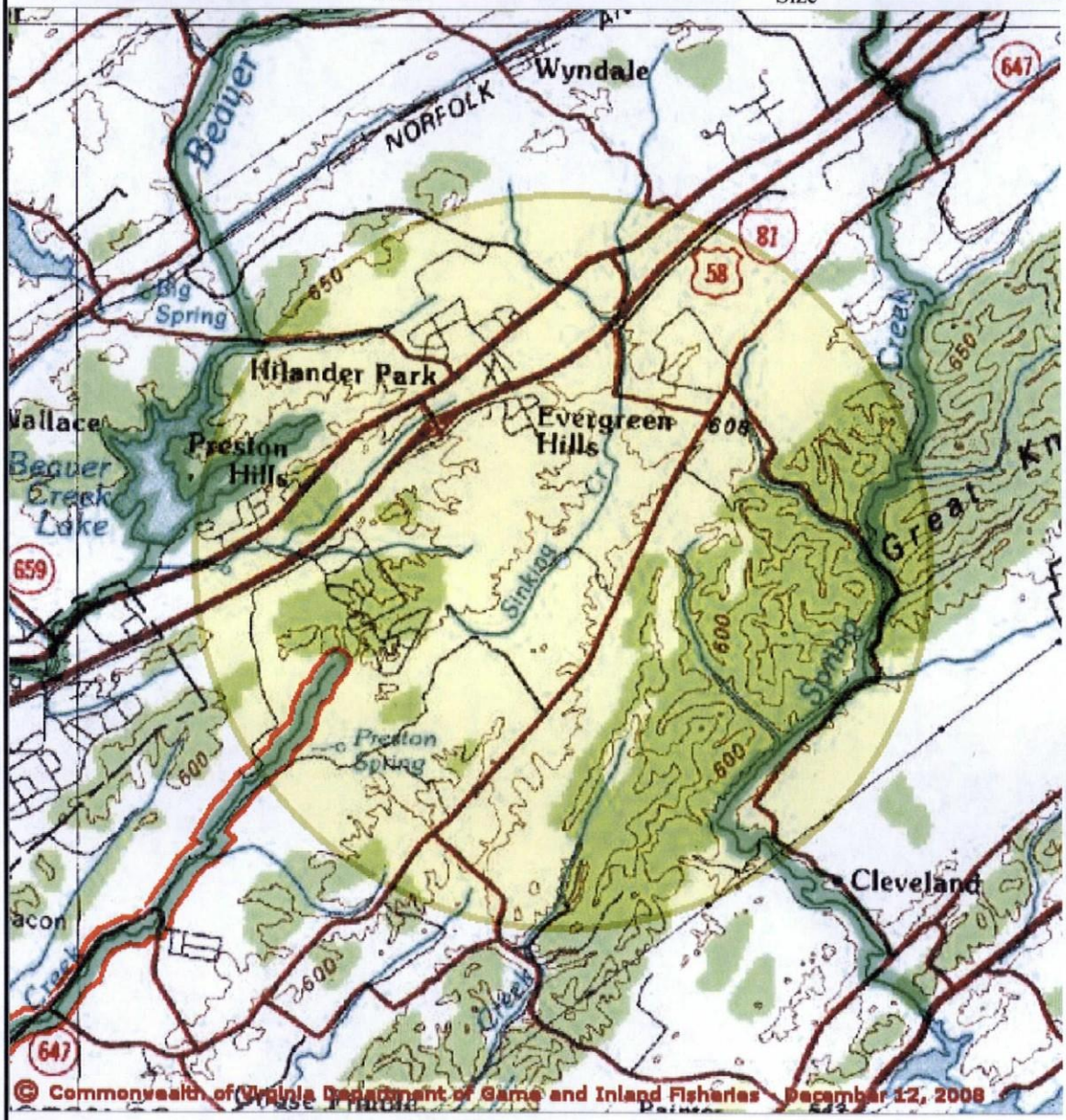
Data Collection Site

Refresh Browser Page

Map Click Pan Id M

Map Scale In Zoom Out

Screen Size Small Size



N

1 0 1 2 3 4 Kilometers

1 0 1 2 3 4 Mil

Point of Search 36,38,25.0 -82,04,16.9
Map Location 36,38,25.0 -82,04,16.9

Select **Coordinate System:** (•) Degrees,Minutes,Seconds Latitude - Longitude
( ) Decimal Degrees Latitude - Longitude
( ) Meters UTM NAD83 East North Zone
( ) Meters UTM NAD27 East North Zone

Base Map source: USGS 1:100,000 topographic maps (see terraserver-usa.com for details)

Map projection is UTM Zone 17 NAD 1983 with left 399440 and top 4060320. Pixel size is 16 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West.Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 9600 meters east to west b 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet e to west by 31501 feet north to south for a total of 35.5 square miles.

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map assembled 2008-12-12 13:37:29 (qa/qc May 21, 2008 10 49 - tn=214700 dist=3218 1)

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Virginia Department of Game and Inland Fisheries

12/12/2008 1:39:05 PM

Fish and Wildlife Information Service

Help

Cold Water Survey Report

Reach ID: 03SNK-01 View Map

Show record ID: 03SNK-01

Stream Name: Sinking Creek
Class: N/A
7.5' USGS Quadrangle: Wyndale
upstream:
downstream: Bristol
Region/District: 3_2
-
Is this stream a tributary of a classified reach?: not available
Upstream Boundary 36,37,55. -82,05,35. Latitude Longitiude (dd,mm,ss)
Downstream Boundary 36,35,47. -82,07,40. Latitude Longitiude (dd,mm,ss)
Reach length (m): 5769
City / County
(191) Washington
7.5' Quadrangle
(1301) Bristol
(1401) Holston Valley
(1402) Wyndale
USGS Hydrologic Unit
(06010102) Tennessee Region: South Fork Holston River
DSWC Hyrdologic Unit
(O07) SOUTH FORK HOLSTON RIVER/BEAVER CREEK

Species observered in **Sinking Creek:**

Bova Code	Status*	Tier**	Common Name	Scientific Name
010183			Bluegill	*Lepomis macrochirus*
010416			darter, unknown	*Etheostoma spp.*
010284			Sculpin, banded	*Cottus carolinae*
010417			Sculpin, unknown	*Cottus spp.*
010105			Sucker, white	*Catostomus commersoni*

* FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; FS=Federal Species of Concern; SC=State Candidate; CC=Collection Concern; SS=State Special Concern

** I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Sample Data: (specific water quality, habitat data, and species collected per sample date)

Date sampled
7/23/1980
9/25/1979

audit no. 214700 12/12/2008 1:39:05 PM Virginia Fish and Wildlife Information Service

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Revised 2/2003

State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: The Olde Farm Golf Club WWTP

NPDES Permit Number: VA0090182

Permit Writer Name: Fred M. Wyatt

Date: January 28, 2009

Major [ ] **Minor** [X] **Industrial** [ ] **Municipal** [X]

I.A. Draft Permit Package Submittal Includes:	**Yes**	**No**	**N/A**
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	X		
3. Copy of Public Notice?		X	
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?		X	
6. A Reasonable Potential analysis showing calculated WQBELs?		X	
7. Dissolved Oxygen calculations?		X	
8. Whole Effluent Toxicity Test summary and analysis?			X
9. Permit Rating Sheet for new or modified industrial facilities?			X

I.B. Permit/Facility Characteristics	**Yes**	**No**	**N/A**
1. Is this a new, or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	X		
3. Does the fact sheet **or** permit contain a description of the wastewater treatment process?	X		

I.B. Permit/Facility Characteristics – cont.	Yes	No	N/A
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		X	
5. Has there been any change in streamflow characteristics since the last permit was developed?		X	
6. Does the permit allow the discharge of new or increased loadings of any pollutants?		X	
7. Does the fact sheet **or** permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water?		X	
a. Has a TMDL been developed and approved by EPA for the impaired water?			X
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?			X
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?			X
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?		X	
10. Does the permit authorize discharges of storm water?		X	
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?		X	
12. Are there any production-based, technology-based effluent limits in the permit?		X	
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		X	
14. Are any WQBELs based on an interpretation of narrative criteria?		X	
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition?		X	
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?		X	
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?	X		
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?		X	
20. Have previous permit, application, and fact sheet been examined?	X		

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Checklist – for POTWs

(To be completed and included in the record only for POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	X		
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	X		

II.B. Effluent Limits – General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?		X	
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			X

II.C. Technology-Based Effluent Limits (POTWs)	Yes	No	N/A
1. Does the permit contain numeric limits for ALL of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?	X		
2. Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?	X		
a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			X
3. Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?	X		
4. Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?	X		
5. Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?		X	
a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			X

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	X		
2. Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			X

II.D. Water Quality-Based Effluent Limits – cont.	Yes	No	N/A
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?		X	
a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?			X
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			X
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?			X
d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?			X
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?			X
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?			X
6. For all final WQBELs, are BOTH long-term AND short-term effluent limits established?	X		
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8. Does the record indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	X		

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?	X		
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?	X		
3. Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?		X	
4. Does the permit require testing for Whole Effluent Toxicity?		X	

II.F. Special Conditions	Yes	No	N/A
1. Does the permit include appropriate biosolids use/disposal requirements?	X		
2. Does the permit include appropriate storm water program requirements?			X

II.F. Special Conditions – cont.	Yes	No	N/A
3. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			X
4. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	X		
5. Does the permit allow/authorize discharge of sanitary sewage from points other than the POTW outfall(s) or CSO outfalls [i.e., Sanitary Sewer Overflows (SSOs) or treatment plant bypasses]?		X	
6. Does the permit authorize discharges from Combined Sewer Overflows (CSOs)?		X	
a. Does the permit require implementation of the "Nine Minimum Controls"?			X
b. Does the permit require development and implementation of a "Long Term Control Plan"?			X
c. Does the permit require monitoring and reporting for CSO events?			X
7. Does the permit include appropriate Pretreatment Program requirements?			X

II.G. Standard Conditions	Yes	No	N/A
1. Does the **permit** contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	X		

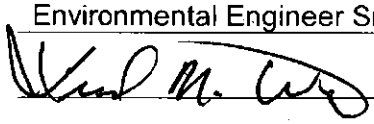
List of Standard Conditions – 40 CFR 122.41

Duty to comply
Duty to reapply
Need to halt or reduce activity not a defense
Duty to mitigate
Proper O & M
Permit actions
Property rights
Duty to provide information
Inspections and entry
Monitoring and records
Signatory requirement
Bypass
Upset
Reporting Requirements
Planned change
Anticipated noncompliance
Transfers
Monitoring reports
Compliance schedules
24-Hour reporting
Other non-compliance

2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for POTWs regarding notification of new introduction of pollutants and new industrial users [40 CFR 122.42(b)]?	X		

Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	Fred M. Wyatt
Title	Environmental Engineer Sr.
Signature	
Date	01/28/2009